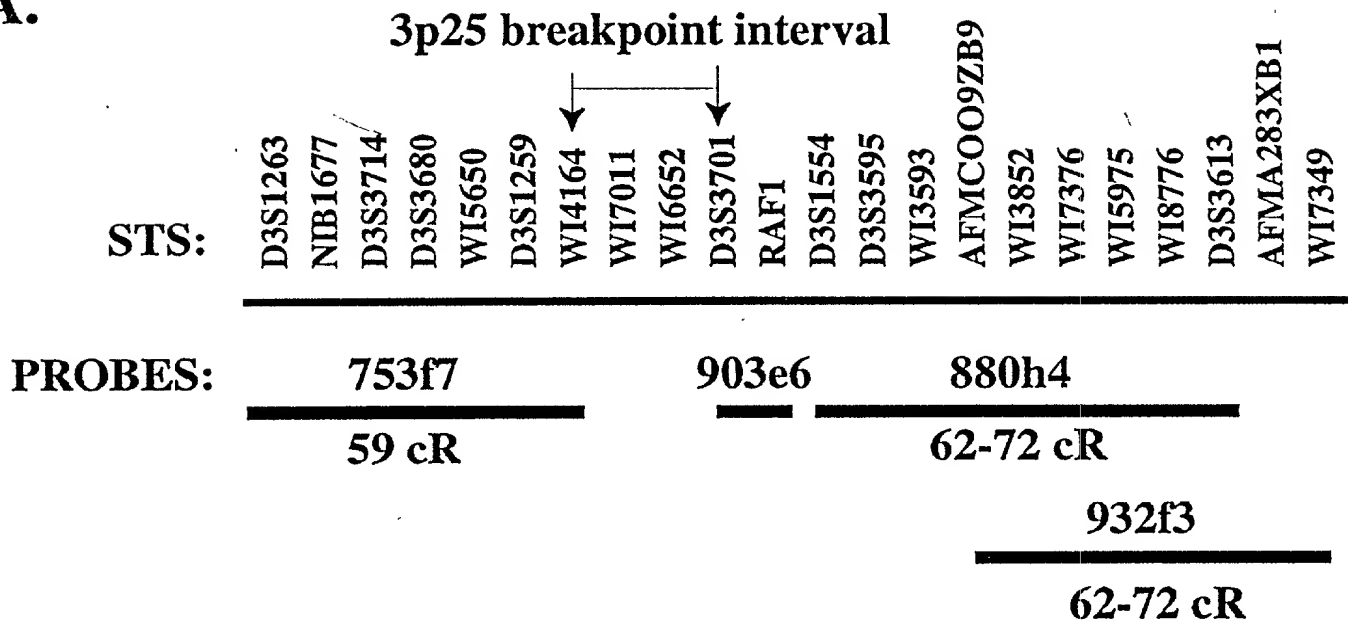
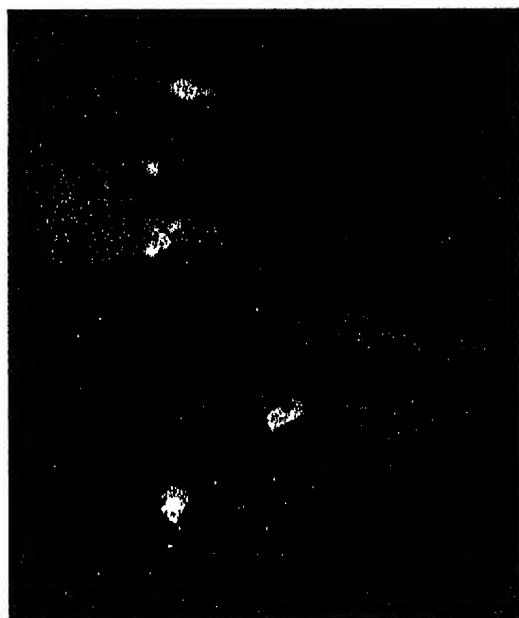


Figure 1

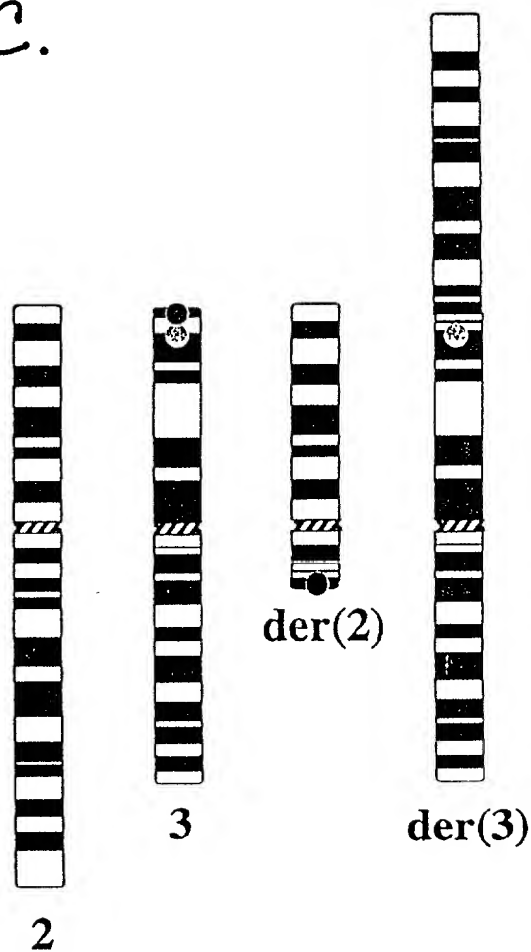
1A.



1B.



1C.



2A.

STS:

2q13 breakpoint

DD2S1896
820C10L3
DD2S160
GLVR
IL1A
IL1B
IGO
PAX8
DD2S1895
IL1RN
WI8657
DD2S121
CHLCGAT15G10
DD2S308
CHLCGATA3D02
CHLCGATA28E11

PROBES:

Diagram illustrating the positions of various genes (765e4, 110124, 908e6, 569-643 cR, 896a8, 582-651 cR, 989f12, 582 cR) relative to the 110124 genome.

2c.

2 B.



2



3



der(2)



der(3)

Figure 3

3 A. PAX8-PPAR γ STRUCTURE:

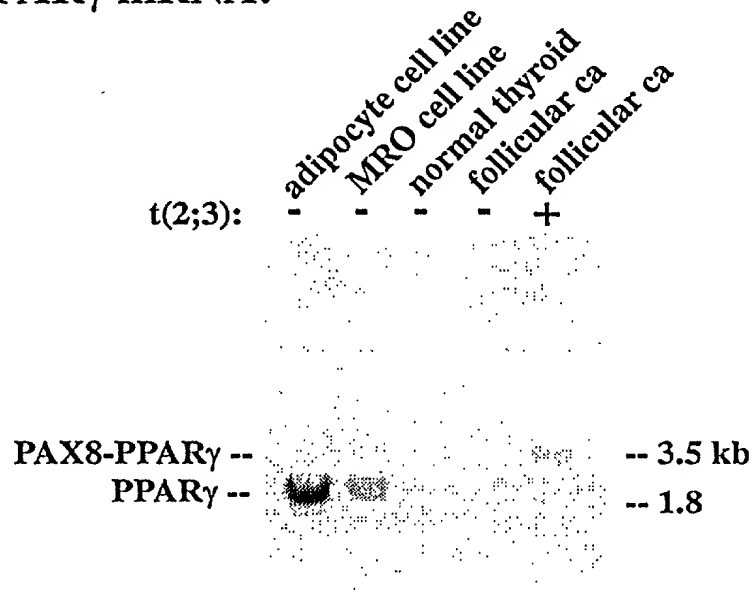
PD	HD	A/B	C	D	E/F
PAX8 DNA BINDING DOMAINS		PPAR γ NUCLEAR RECEPTOR DOMAINS			

PAX8e7-PPAR γ e1: AGA CCT ACC CCG TGG TGG CAG -- AAA TGA CCA TGG TTG ACA CAG

PAX8e8-PPAR γ e1: CGG GCC AGG CCC TCC TCT CAG -- AAA TGA CCA TGG TTG ACA CAG

PAX8e9-PPAR γ e1: CCA TCG CAG GCA TGG TGG CAG -- AAA TGA CCA TGG TTG ACA CAG

3 B. PAX8-PPAR γ mRNA:



3 C. PAX8-PPAR γ PROTEIN:

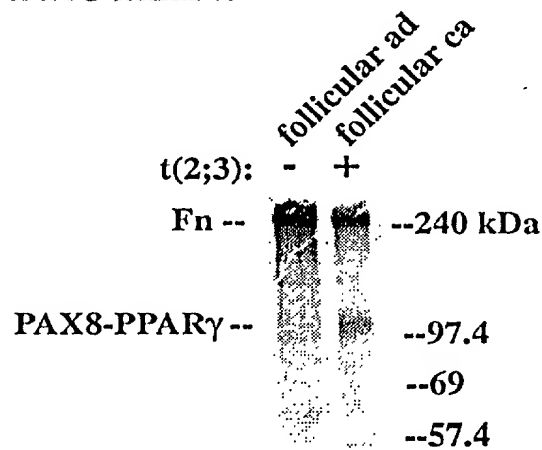
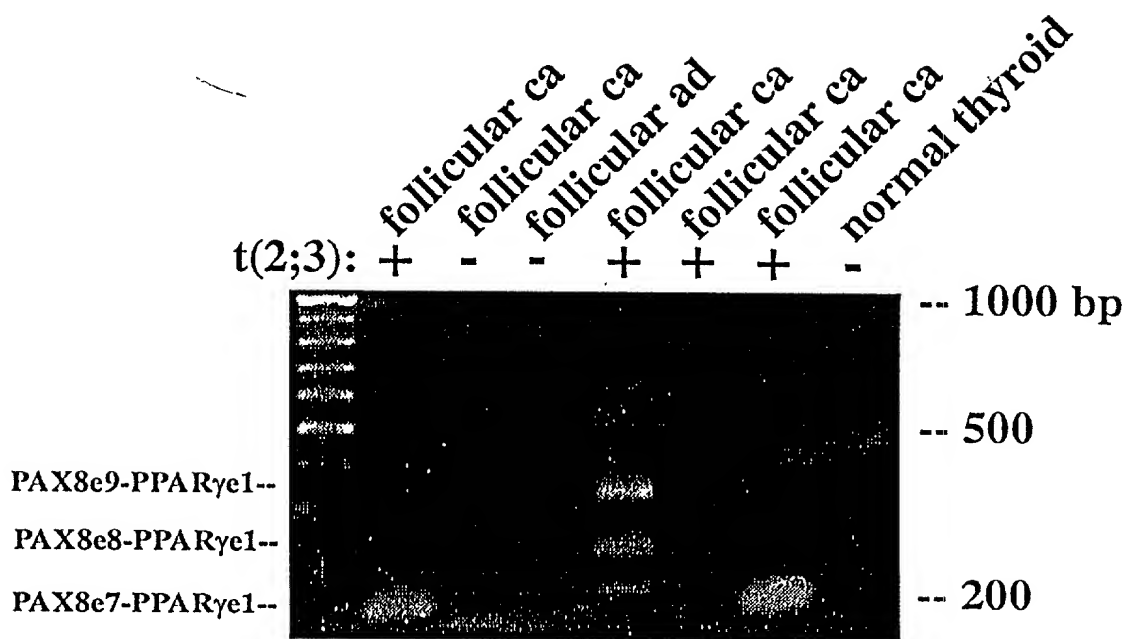


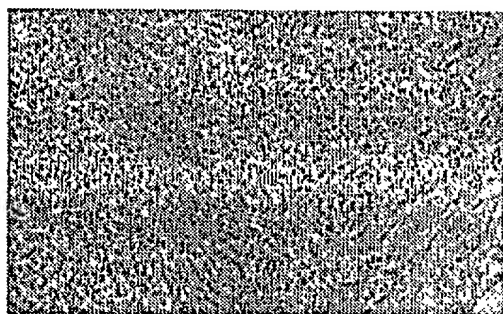
Figure 4

4A. PAX8-PPAR γ RTPCR:

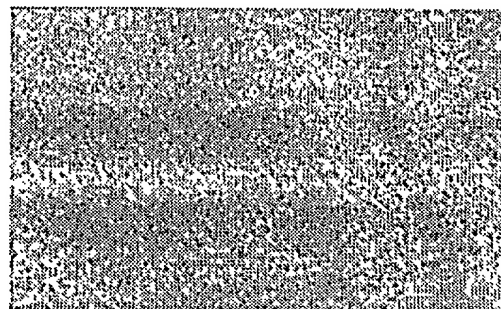


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4B. PAX8-PPAR γ IMMUNOHISTOCHEMISTRY:



anti-PPAR γ

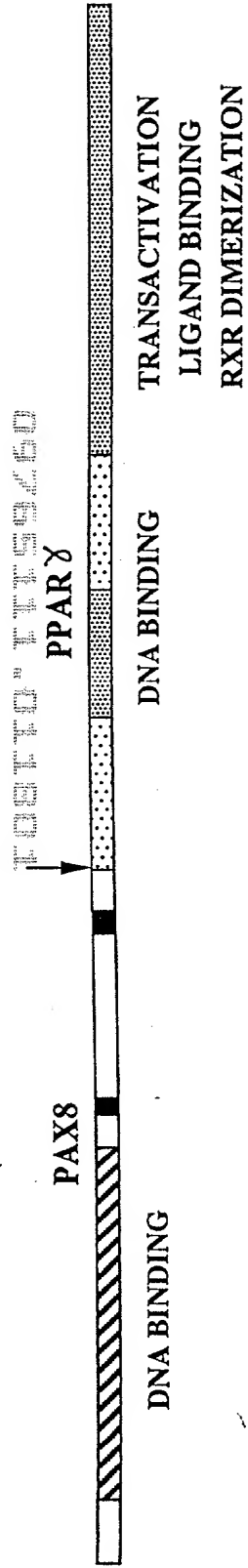


anti-PPAR γ
+ PPAR γ peptide

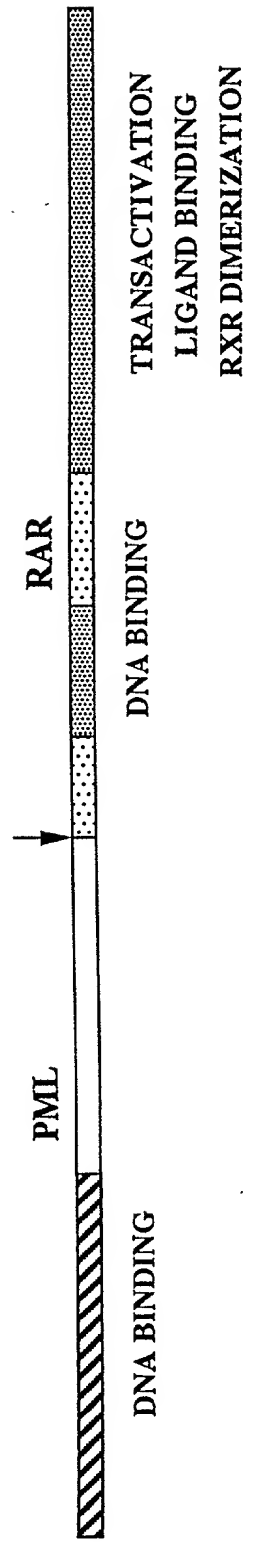
4C.

THYROID NEOPLASM	RT-PCR	IMH
Follicular Carcinoma	5/8	7/8
Follicular Adenoma	0/20	0/20
Papillary Carcinoma	0/10	0/10
Multi-nodular Hyperplasia	0/10	0/10

THYROID FOLLICULAR CARCINOMA: t(2;3)(q13;p25)---->PAX8-PPAR γ



ACUTE PROMYELOCYTIC LEUKEMIA: t(15;17)(q22;q11-21) ----->PML-RAR α



ALVEOLAR RHABDOMYOSARCOMA: t(2;13)(q35;q14) ----->PAX3-FKHR

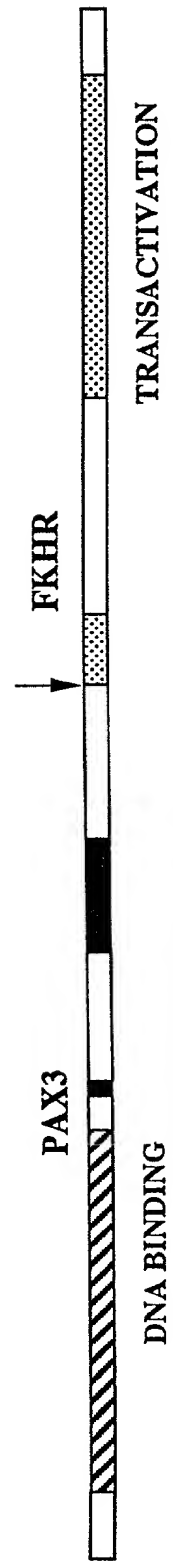
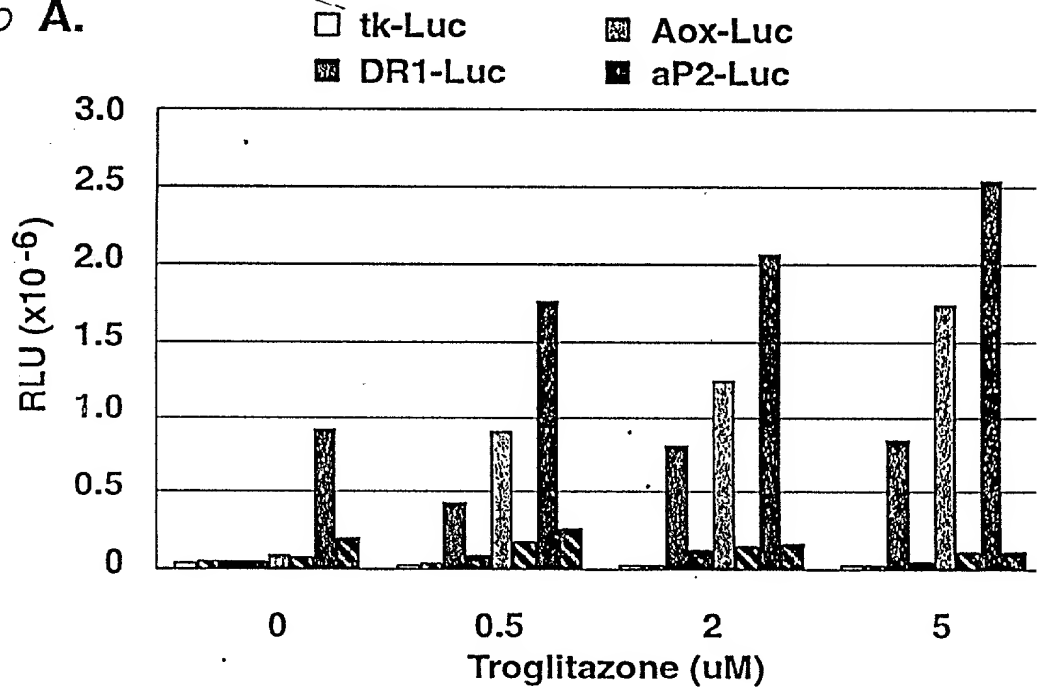


Figure 5

Figure 6

6 A.



6 B.

